

SEQUENCE LISTING

<110> The Chemo-Sero-Therapeutic Research Institute

<120> Human anti-human MCP-1 antibody and fragment thereof

<130> 663985

<150> JP 2002-267184

<151> 2002-09-12

<160> 14

<210> 1

<211> 366

<212> DNA

<213> Homo sapiens

<400> 1

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Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser	
1 5 10 15	
tgc gtg aag gtc tcc tgc aag gct tct gga ggc acc ttc agc agc tat	96
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr	
20 25 30	
gct atc agc tgg gtg cga cag gcc cct gga caa ggg ctt gag tgg atg	144
Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met	
35 40 45	
gga ggt ttt gat cct gaa gat ggt gaa aca atc tac gca cag aag ttc	192
Gly Gly Phe Asp Pro Glu Asp Gly Glu Thr Ile Tyr Ala Gln Lys Phe	
50 55 60	
cag ggc aga gtc acc atg acc gag gac aca tct aca gac aca gcc tac	240
Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr	
65 70 75 80	

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atg gag ctg agc agc ctg aga tct gag gac acg gcc gtg tat tac tgt 288

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

85

90

95

gca aca gat ctt ggc gga ggt gac tac tac tac ggt atg gac gtc tgg 336

Ala Thr Asp Leu Gly Gly Gly Asp Tyr Tyr Tyr Gly Met Asp Val Trp

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105

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ggc cca ggg acc acg gtc acc gta tcc tca

366

Gly Pro Gly Thr Thr Val Thr Val Ser Ser

115

120

<210> 2

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr

20

25

30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

35

40

45

Gly Gly Phe Asp Pro Glu Asp Gly Glu Thr Ile Tyr Ala Gln Lys Phe

50

55

60

Gln Gly Arg Val Thr Met Thr Glu Asp Thr Ser Thr Asp Thr Ala Tyr

65

70

75

80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

85

90

95

Ala Thr Asp Leu Gly Gly Gly Asp Tyr Tyr Tyr Gly Met Asp Val Trp

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105

110

3/8

Gly Pro Gly Thr Thr Val Thr Val Ser Ser

115

120

<210> 3

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<223> CDR1 corresponding to amino acids No. 31 to No. 35 in SEQ ID NO: 2

<400> 3

Ser Tyr Ala Ile Ser

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<210> 4

<211> 17

<212> PRT

<213> Homo sapiens

<220>

<223> CDR2 corresponding to amino acids No. 50 to No. 66 in SEQ ID NO: 2

<400> 4

Gly Phe Asp Pro Glu Asp Gly Glu Thr Ile Tyr Ala Gln Lys Phe Gln

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15

Gly

<210> 5

<211> 13

<212> PRT

<213> Homo sapiens

<220>

4/8

<223> CDR3 corresponding to amino acids No. 99 to No. 111 in SEQ ID NO:

2

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Asp Leu Gly Gly Gly Asp Tyr Tyr Tyr Gly Met Asp Val

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<210> 6

<211> 324

<212> DNA

<213> Homo sapiens

<400> 6

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Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly

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10

15

gac aga gcc acc atc tct tgc cgg tct agt cag agc att aac acc tat 96

Asp Arg Ala Thr Ile Ser Cys Arg Ser Ser Gln Ser Ile Asn Thr Tyr

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25

30

tta cat tgg tat cag cag aaa cca ggg gaa gcc cct aaa ctc ctg atc 144

Leu His Trp Tyr Gln Gln Lys Pro Gly Glu Ala Pro Lys Leu Leu Ile

35

40

45

tat gct gct tcc acc ttg caa agt ggg gtc cca tca aga ttc agt ggc 192

Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly

50

55

60

agt gga tct ggg aca gat ttc act ctc acc atc acc act ctc caa cct 240

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Thr Leu Gln Pro

65

70

75

80

gaa gat ttt gca act tat tac tgc caa cag agt ttc act acc cca ctc 288

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Phe Thr Thr Pro Leu

85

90

95

5/8

act ttc ggc gga ggg acc aag gtg gag atc aaa cgt 324

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg

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105

<210> 7

<211> 108

<212> PRT

<213> Homo sapiens

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Asp Ile Gln Leu Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly

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Asp Arg Ala Thr Ile Ser Cys Arg Ser Ser Gln Ser Ile Asn Thr Tyr

20

25

30

Leu His Trp Tyr Gln Gln Lys Pro Gly Glu Ala Pro Lys Leu Leu Ile

35

40

45

Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly

50

55

60

Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Thr Leu Gln Pro

65

70

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80

Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Phe Thr Thr Pro Leu

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90

95

Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg

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105

<210> 8

<211> 11

<212> PRT

<213> Homo sapiens

<220>

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<223> CDR1 corresponding to amino acids No. 24 to No. 34 in SEQ ID NO: 7

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Arg Ser Ser Gln Ser Ile Asn Thr Tyr Leu His

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<210> 9

<211> 7

<212> PRT

<213> Homo sapiens

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<223> CDR2 corresponding to amino acids No. 50 to No. 56 in SEQ ID NO: 7

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Ala Ala Ser Thr Leu Gln Ser

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<210> 10

<211> 9

<212> PRT

<213> Homo sapiens

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<223> CDR3 corresponding to amino acids No. 89 to No. 97 in SEQ ID NO: 7

<400> 10

Gln Gln Ser Phe Thr Thr Pro Leu Thr

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<210> 11

<211> 42

<212> DNA

<213> Artificial

<220>

<223> VH chain sense primer

<400> 11

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42

<210> 12

<211> 20

<212> DNA

<213> Artificial

<220>

<223> VH chain antisense primer

<400> 12

tgaggatacg gtgaccgtgg

20

<210> 13

<211> 42

<212> DNA

<213> Artificial

<220>

<223> VL chain sense primer

<400> 13

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42

<210> 14

<211> 20

<212> DNA

<213> Artificial

<220>

<223> VL chain antisense primer

<400> 14

acgtttgatc tccaccttgg

20

